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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re Utility Patent Application of: ) Dated: November 7, 2001  
)  
Kevin G. OWENS et al. ) Examiner: Unassigned  
)  
Serial No.: 09/809,090 ) Group Art Unit: Unassigned  
)  
Filed: March 16, 2001 )  
)  
For: BIPOLAR TIME-OF-FLIGHT DETECTOR, CARTRIDGE AND DETECTION METHOD

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**INFORMATION DISCLOSURE STATEMENT**  
**35 U.S.C. §6; 37 C.F.R. §§1.56, 1.97 and 1.98**

Applicants bring to the attention of the United States Patent and Trademark Office the references listed on the attached appendix and on the attached Form PTO-1449. Unless otherwise indicated, one copy of each reference is attached. The Applicants respectfully request that this information submitted be considered during the prosecution of this Application and that the references be made of record and appear among the "References Cited" on any patent that may issue from the above-identified Application.


This Information Disclosure Statement is filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

No significance should be drawn from markings occurring on the documents submitted herewith.

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This paper was filed within the shortened statutorily-prescribed time limit, thus no fees are owing. If filing this paper or any accompanying papers necessitates additional fees not otherwise provided for, the undersigned authorizes the Commissioner to deduct such additional fees from Deposit Account No. 04-2223.

Respectfully Submitted,

  
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## APPENDIX

1. United States Patent No. 4,267,448, issued May 12, 1981, to Feser *et al.*, entitled *Ion Detector With Bipolar Accelerating Electrode*;
2. United States Patent No. 4,948,965, issued August 14, 1990, to Feller, entitled *Conductively Cooled Microchannel Plates*;
3. United States Patent No. 4,978,885, issued December 18, 1990, to White *et al.*, entitled *Electron Multipliers With Reduced Ion Feedback*;
4. United States Patent No. 4,996,422, issued February 26 1991, to Mitsui *et al.*, entitled *Mass Spectrometer*;
5. United States Patent No. 5,306,910, issued April 26, 1994, to Jarrell *et al.*, entitled *Time Modulated Electrified Spray Apparatus and Process*;
6. United States Patent No. 5,349,185, issued September 20 1994, to Mendenhall, entitled *High Resolution Detector Device for a Particle Time-of-Flight Measurement System*;
7. United States Patent No. 5,374,826, issued December 20, 1994, to LaRue *et al.*, entitled *Hybrid Photomultiplier Tube With High Sensitivity*;
8. United States Patent No. 5,436,446, issued July 25, 1995, to Jarrell *et al.*, entitled *Analyzing Time Modulated Electrospray*;
9. United States Patent No. 5,463,218, issued October 31, 1995, to Holle, entitled *Detection of Very Large Molecular Ions in a Time-of-Flight Mass Spectrometer*;
10. United States Patent No. 5,548,121, issued August 20, 1996, to Balmer *et al.*, entitled *Electronically Shielded Solid State Charged Particle Detector*;
11. United States Patent No. 5,770,858, issued June 23, 1998, to Fuchs *et al.*, entitled *Microchannel Plate-Based Detector for Time-of-Flight Mass Spectrometer*;
12. United States Patent No. 6,008,491, issued December 28, 1999, to Smentkowski *et al.*, entitled *Time-of-Flight SIMS/MSRI Reflectron Mass Analyzer and Method*;
13. United States Patent No. 6,013,913, issued January 11, 2000, to Hanson, entitled *Multi-Pass Reflectron Time-of-Flight Mass Spectrometer*; and
14. United States Patent No. 6,051,831, issued April 18, 2000, to Köster, entitled *High-Mass Detector with High Mass-Resolution for Time-of-Flight Mass Spectrometers*.